

VCO commercial series - Wide band



WIDE BAND VCO

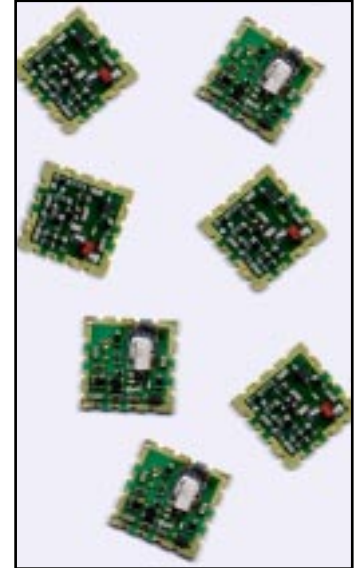
Features

This series proposes wide band VCO:

- bandwidth: from 20% up to the octave
- frequency range: 140 MHz to 2700 MHz
- phase noise: as low as -113 dBc @ 12.5 kHz from the carrier

Description

Wide band VCOs are required in Radio Links, instrumentation and military applications. Their bandwidth (BW) and phase noise performances avoid the use of bank of switched VCO: design is simpler and cost lower. Tuning voltage depends on the BW, typically 0 to 5 V and up to 18 V for octave BW VCO. Power output is up to 7 dBm.



All our parts are manufactured with lead free technology.

Electrical characteristics @ 25° C

P/N	Frequency range	Tuning voltage	Phase noise @ 10kHz	Phase noise @ 100kHz	2nd harmonic	RF output power	Power supply	Case type	Pushing	Pulling	Input capacitance
	MHz min. - max.	V min. - max.	dBc/Hz max.	dBc/Hz max.	dBc max.	dBm typ.	V/mA typ.		MHz/V max.	MHz max.	pF
VLB130	130 - 170	0.5 - 3.0	-113 @ 12.5kHz	-132 @ 800kHz	-15	-2.5	3 @ 26	SM1	± 0.3	0.5 @ 2:1	100
VLB140	140 - 250	0.4 - 4.5	-100	-140 @ 1000kHz	-10	0	5 @ 15	SM1	± 0.4	6.0 @ 2:1	200
VLB242	240 - 320	1 - 8	-110	-130	-13	-1.5	8 @ 9.6	SM1	± 0.7	3.0 @ 2:1	1000
VLB350	350 - 420	1 - 8	-110	-130	-13	-1.5	8 @ 9.6	SM1	±0.7	3.0 @ 2:1	1000
VLB731	730 - 947	0.4 - 4.5	-110	-141 @ 275kHz	-20	0	5 @ 25	SM1	±0.3	0.6 @ 2:1	70
VLB800	800 - 1450	1 - 15	-97	-117	-10	5	5 @ 30	SM1	±2.0	20.0 @ 2:1	47
VLB950	950 - 1760	2 - 18	-85	-105	-10	6	5 @ 25	SM1	±2.0	20.0 @ 2:1	100
VLB1000	1000 - 2100	1 - 24	-90	-110	-15	3	5 @ 25	SM1	±2.5	20.0 @ 1:7	100
VLB1050	1050 - 1500	5 - 18	-109 @ 20kHz	-122	-15	7	8 @ 35	SM1	± 3.0	4.0 @ 2:1	47
VLB1100	1100 - 1650	4 - 15	-85	-105	-7	7	12 @ 35	SM1	±11.0	25.0 @ 2:1	100
VL3-1180	1180 - 1815	1 - 13	-82	-102	-20	2	15 @ 40	SM2	±2.5	10.0 @ 2:1	47
VLB1251	1250 - 1550	1 - 8	-90	-110	-10	5	9 @ 25	SM1	±2.0	20.0 @ 2:1	100
VLB1440	1440 - 1700	0.3 - 4.5	-101	-121	-10	2.5	5 @ 15	SM1	±2.5	15.0 @ 2:1	56
VLB1450	1450 - 2050	1 - 15	-95	-115	-10	5	5 @ 30	SM1	±15.0	60.0 @ 2:1	47
VLB1501	1500 - 1885	5 - 18	-107 @ 20kHz	-120	-15	0	8 @ 30	SM1	±3.0	4.0 @ 2:1	47
VLB2200	2200 - 2700	1 - 8	-80	-100	-8	5	9 @ 25	SM1	±2.5	30.0 @ 1.7:1	100

VCO commercial series - Wide band



Typical performances @ 800 MHz

